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In re Application of

Application Number

08/639,530

Filed

May 1, 1996

Art Unit

Examiner

Paper No. 816

Assistant Commissioner for Patents
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1. ☐ I hereby request access under 37 CFR 1.14(e)(2) to the application file record of the above-identified ABANDONED Application, which is not within the file jacket of a pending Continued Prosecution Application (CPA) (37 CFR 1.53(d)) and is: (CHECK ONE)

☒ (A) referred to in:

United States Patent Application Publication No. 6,305,396, page _____, line _____,

United States Patent Number _____, column _____, line _____, or

an International Application which was filed on or after November 29, 2000 and which

designates the United States, WIPO Pub. No. _____, page _____, line _____.

☐ (B) referred to in an application that is open to public inspection as set forth in 37 CFR 1.11(b) or

1.14(e)(2)(i), i.e., Application No. _____, paper No. _____, page _____, line _____.

2. ☐ I hereby request access under 37 CFR 1.14(e)(1) to an application in which the applicant has filed an authorization to lay open the complete application to the public.

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US006305396B1

(12) **United States Patent**
Zheng

(10) Patent No.: **US 6,305,396 B1**
(45) Date of Patent: **Oct. 23, 2001**

(54) **COLLAPSIBLE STRUCTURES**

(75) Inventor: **Yu Zheng, Walnut, CA (US)**

(73) Assignee: **Patent Category Corp., Walnut, CA (US)**

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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(21) Appl. No.: **09/543,245**

(22) Filed: **Apr. 5, 2000**

Related U.S. Application Data

(60) Continuation-in-part of application No. 08/639,530, filed on May 1, 1996, which is a division of application No. 08/529,552, filed on Sep. 18, 1995, now Pat. No. 5,579,799, which is a continuation of application No. 08/024,690, filed on Mar. 1, 1993, now Pat. No. 5,467,794, which is a continuation-in-part of application No. 07/764,784, filed on Sep. 24, 1991, now Pat. No. 5,301,705.

(51) Int. Cl.⁷ **E04H 15/40**

(52) U.S. Cl. **135/126; 135/128; 135/115; 135/143**

(58) Field of Search **135/125, 126, 135/128, 143, 157, 115**

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(57) **ABSTRACT**

A collapsible structure includes a plurality of foldable frame members each having a folded and an unfolded orientation. A fabric material is provided for covering portions of the frame members to form a side panel for each frame member. The structure can have a removable roof. The structure may be folded and stored by folding the side panels and their corresponding frame members on top of each other about the hinge portions to have the side panels and frame members overlying each other. The overlaying side panels and frame members are then collapsed by twisting and folding to form a plurality of concentric frame members and side panels to substantially reduce the size of the shade structure.

10 Claims, 18 Drawing Sheets

